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1971. (INZZ) Interactive mechanical **design** automation.

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INSPEC - 1969 to date (INZZ)

Accession number & update

5990600, B9809-0170C-009, C9809-7410-014; 980804.

Title

Smart software builds a better **harness**.

Author(s)

Alibozek-T.

Author affiliation

Linius Technol Inc, Westborough, MA, USA.

Source

Machine-Design-International (USA), vol.70, no.8, p.89-92, 7 May 1998. , Published: Penton Publishing.

CODEN

MDESET.

ISSN

ISSN: 0024-9114, CCCC: 0024-9114/98/ (\$1.25+.60).

Availability

SICI: 0024-9114(19980507)70:8L.89:SSBB; 1-D.

Publication year

1998.

Language

EN.

Publication type

J Journal Paper.

Treatment codes

P Practical.

Abstract

Most CAD software for producing virtual prototypes of **wire harnesses** had been part of a mechanical engineer's toolbox. Mechanical CAD packages just adequately handle the spatial features of a **harness design** such as **wire** bundle length and position, but fail in quantifying combined electrical and mechanical features such as **wire** resistance and EM field interference. Electromechanical-oriented software generates virtual **wire-harness** prototypes, eliminating the physical prototypes usually required for verification. A new program called EMbassy meets the requirements. It quickly helps **wire harness** engineers assemble accurate information for fabricating harnesses, including: finished dimensions, **wire** lengths, cable groupings, lists of wires and **connect** n points that define logical connections, and component specifications for ordering individual **harness** parts. (0 refs).

Descriptors

[CAD](#); [electrical-engineering-computing](#); [software-packages](#); [software-prototyping](#); [wires-electric](#).

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INSPEC - 1969 to date (INZZ)

Accession number & update

4067184, C9202-7480-131; 920000.

TitleNavistar: The **Wire Harness** Cost Estimator.**Author(s)**

Kessler-J-L.

Source

Proceedings. The Second International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems. IEA/AIE - 89, Tullahoma, TN, USA, 6-9 June 1989, p.589-600 vol.2.

Sponsors: Univ. Tennessee, ACM, AAAI, IEEE, et al.

Published: ACM, New York, NY, USA, 1989, 2 vol. (xxxiv+1108) pp.

ISSN

ISBN: 0-89791-320-5, CCCC: 0 89791 320 5/89/0006/0589 (\$1.50).

Publication year

1989.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

E Economic or Commercial; G General or Review.

Abstract

Describes The **Wire Harness** Cost Estimator which offers the user a choice of costing information in two modes: an on-screen interactive process or a printed report. The on-screen version displays several windows of information about the **wire harness**. One window lists a menu of **design** decisions that the user can access on screen. For example the expert can view the cost of each individual circuit in the **harness**. Or the expert can see how many connectors in the **harness** and the circuits that each **connector** joins. The system also knows which parts need grease, solder and tape and how much of each is needed for each part. The **Wire Harness** Cost Estimator also provides a printed report. The printout breaks down the costs of the **wire harness** into detailed costs. It classifies costs as direct costs or variable costs and, in general, reduces the number of cost factors to a manageable amount of information to help the human cost estimator make appropriate and cost-efficient **design** recommendations or to follow up in the interactive mode. In addition, the printed report helps the purchasing department make better vendor-procurement decisions by providing valuable data on the **wire harness** cost-estimation procedure. (0 refs).

Descriptors[CAD-CAM](#); [economics](#); [expert-systems](#).**Keywords**

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INSPEC - 1969 to date (INZZ)

Accession number & update

3157923, B88038851; 880000.

Title

Harness design-common function bussing and discrete component installation for high reliability applications.

Author(s)

Ekman-L-W; Dorman-K-W.

Author affiliation

Fairchild Space Co, Germantown, MD, USA.

Source

20th Annual Connectors and Interconnection Technology Symposium, Philadelphia, PA, USA, 19-21 Oct. 1987, p.364-74.

Sponsors: Electron. **Connector** Study Group.

Published: Electron **Connector** Study Group, Deerfield, IL, USA, 1987, xiii+458 pp
Translation of: B18.

Publication year

1987.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

A Application; P Practical.

Abstract

The **wire harness design** engineer is presented with many difficult **design** decisions when faced with common function bussing in **wire** harnesses. This is especially true for high reliability applications used in airframes, weapon systems, and satellites. One of the goals of system **design** should be to interconnect the common functions within the electronic units, thus providing for maximum support and isolation of the mechanical terminations. Starting with the specified bussing requirements, reliable terminations are the foremost consideration, but several other **design** constraints must be considered including: hardware qualification, EMI/EMP/EMC, system weight, potential for change, and ease of testing. Furthermore, hardware delivery time and cost must also be confronted. Another all too common and undesirable requirement imposed on the **harness design** engineer is the need to incorporate discrete components (resistors, capacitors, etc.) into the system **wire harness**. Although several hardware devices and systems are available for the applications described above, each includes its own assortment of advantages and disadvantages which must be weighed. The paper examines several system approaches for high reliability applications. The hardware addressed includes: several types of termination boards, splices, terminal junction systems, and **c nnect r** bussing schemes. (5 refs).

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INSPEC - 1969 to date (INZZ)

Accession number & update

272228, B71021666, C71012497; 710000.

Title

Interactive mechanical **design** automation.

Author(s)

Villers-P.

Author affiliation

Computervision Corp, Burlington, MA, USA.

Source

Semiconductor integrated circuit processing and production conference (abstracts), Anaheim, CA, USA, 9-11 Feb. 1971, p.1 pp..

Sponsors: Industrial and Sci. Conference Management.

Published: Industrial and Sci. Conf. Management, Chicago, IL, USA, 1971, 47 pp.

Publication year

1971.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

P Practical.

Abstract

The widespread availability of time-shared terminals on the one hand, and low-cost mini computers with inexpensive bulk storage on the other, has resulted in a rapid increase in the use of interactive **design** via computer terminals. Electric **design** applications range from the interactive **design** of integrated circuit masks, printed circuit layouts, and electronic packaging and documentation to **wire harness design** and logic diagrams. In mechanical **design**, interactive terminals are used for the **design** of individual parts, often in **connection** with N.C. equipment, and also in the preparation of layouts and configuration drawings where repetitive details are common. Interactive systems involve use of a computer terminal ranging from the IBM 2250, or similar dynamic CRT type display, or low-cost storage CRTs and electromechanical devices such as the Mergenthaler diagrammer. New hybrid systems involving both CRT and electromechanical techniques, such as Computervision's INTERACT-graphic I, are just being introduced. Large software packages are required to support these applications and are now commonly available. The cost effectiveness of various **design** systems is discussed in terms of man equivalents and several applications, such as automatic P.C. board layout and integrated circuit mask **design**, are discussed in depth.

Descriptors

[cathode-ray-tubes](#); [computer-aided-circuit-design](#); [computer-aided- design](#); [display-systems](#); [electronics-applications-of-computers](#);

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1 [Three levels of the wiring interconnection problem](#)

D. K. Frayne

January 1965 **Proceedings of the SHARE design automation project**

Full text available:  [pdf\(469.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes a set of computer programs written to aid in the design, documentation, manufacture, and test of electronic hardware. The programs discussed are limited to the areas involved with the problem of wiring interconnection. While it can be said that there are over 10 different levels or types of wiring interconnection, these programs primarily concern the most common three: 1. Interconnection of circuit cards or other modules on a chassis 2. Interconnec ...

2 [Manufacturing engineering and information](#)

C. C. Zell

January 1967 **Proceedings of the 4th conference on Design automation**

Full text available:  [pdf\(12.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes an operating computer-aided system (COMET), which processes Automated Wire List data into many forms required in manufacturing, assembly, installation and automated check out of electrical and electronic systems. The presentation presumes an operating Automated Wire List system and specifies some of the value benefits achieved at North American Aviation, Inc. The COMET description is presented from the viewpoint of Manufacturing Engineering as an interface communication ...

3 [Design automation and the WRAP System](#)

J. A. Brown, L. J. Cesa, J. J. Sawicki

July 1968 **Proceedings of the 5th annual workshop on Design automation**

Full text available:  [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The WRAP (Wire Routing and Packaging) System is a 7094 programming system for the automatic packaging and wiring of Aerospace computers. WRAP, originally written to assist in the packaging of IBM's System/4 Pi family of computers, has been applied to a wide range of package configurations. Use of the WRAP System has greatly reduced the time required to design and manufacture a machine. The system operates from a logic design recording system (SLDA), performs automatic packaging a ...

4 [Automotive databus simulation using VHDL](#)

Karen Hale

September 1994 **Proceedings of the conference on European design automation**

Full text available:  pdf(629.02 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

5 A computer aided interconnection system

Richard W. Wilson

January 1969 **Proceedings of the 6th annual conference on Design Automation**

Full text available:  pdf(386.33 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

When electronic equipment is designed there are two ways of defining the equipment: 1) by parts content and 2) by electrical interconnections. The concern here is with electrical interconnections; how they are defined; how they flow through the phases of design; and how a computer-aided system has helped to create an efficient design tool out of a cumbersome manual data flow. By comparing the manual system (Fig 1) with the computer-aided system (F ...

6 Engineering Applications: Constraint-based design of optimal transport elements

Michael Drumheller

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available:  pdf(492.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An airliner contains thousands of transport elements, such as tubes, hoses, and wires. Transport elements must be designed subject to many constraints. Some are extrinsic, involving factors such as clearance, slope, and stay-out/stayin zones. Others are intrinsic, involving factors such as bend angles and bend radii. A key problem is to design a feasible route that runs from A to B optimally (e.g., as short as possible). We describe an algorithm that allows "sketching" a route in terms of constr ...

Keywords: constraintbased, design, multi-criteria or multi-objective optimization, piping, routing, transport elements, tubing

7 TOBAC: a test case browser for testing object-oriented software

Ernst Siepmann, A. Richard Newton

August 1994 **Proceedings of the 1994 ACM SIGSOFT international symposium on Software testing and analysis**

Full text available:  pdf(1.55 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 A simulator for high speed digital communications

Ernest A Fardin, Peter Munro, Jarred Scagliotta, John Morris

January 2001 **Australian Computer Science Communications , Proceedings of the 6th Australasian conference on Computer systems architecture**, Volume 23 Issue 4

Full text available:  pdf(831.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


Since parallel processors are generally constrained by the available interprocessor data transfer capability, system designers generally try to push interconnection systems to their limits in bandwidth. Practical and economic systems are constrained by many physical and packaging considerations such as a need to use commercially available connectors. We describe here VisiSolve - a simulator that we have built to predict behaviour of interconnect systems that can readily be assembled from 'off-th ...

9

Technologies for augmented reality systems: realizing ultrasound-guided needle biopsies

Andrei State, Mark A. Livingston, William F. Garrett, Gentaro Hirota, Mary C. Whitton, Etta D.

Pisano, Henry Fuchs

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available: [pdf\(972.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: 3D medical imaging, BSP tree, augmented reality, calibration, registration, stereo video see-through head-mounted display, ultrasound echography

10 Invited application paper: re-engineering C++ components via automatic program transformation

Robert L. Akers, Ira D. Baxter, Michael Mehlich

August 2004 **Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available: [pdf\(200.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automated program transformation holds promise for a variety of software life cycle endeavors, particularly where the size of legacy systems makes code analysis, re-engineering, and evolution very difficult and expensive. But constructing transformation tools that handle the full generality of modern languages and that scale to very large applications is itself a painstaking and expensive process. This cost can be managed by developing a common transformation system infrastructure that is re-use ...

Keywords: C++, abstract syntax trees, compilers, component architectures, legacy systems, migration, patterns, re-engineering, rewrite rules, software analysis, software transformation

11 Improving static and dynamic registration in an optical see-through HMD

Ronald Azuma, Gary Bishop

July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**

Full text available: [pdf\(321.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
[ps\(1.65 MB\)](#)

In Augmented Reality, see-through HMDs superimpose virtual 3D objects on the real world. This technology has the potential to enhance a user's perception and interaction with the real world. However, many Augmented Reality applications will not be accepted until we can accurately register virtual objects with their real counterparts. In previous systems, such registration was achieved only from a limited range of viewpoints, when the user kept his head still. This paper offers improved regi ...

Keywords: augmented reality, calibration, registration

12 Automatic batch processing in multilayer ceramic metallization

Neil DalCero

June 1983 **Proceedings of the 20th conference on Design automation**

Full text available: [pdf\(311.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes advances in the batch processing automation of multilayer ceramic metallization manufacturing. The metallization is a plating process that deposits electroless nickel and electroless gold on conductive molybdenum features. The plating operation involves the processing of up to 72 multilayer ceramic substrates in one group. Each product group automatically moves through 35 sequential chemical operations to complete the process. As a product is compli ...

13 APL and robotics

A. Martin Euredjian

May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future**, Volume 15 Issue 4

Full text available: [pdf\(1.36 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Program execution speeds on today's general purpose APL running computers do not allow APL to be used as a Robot control language, this execution speed problem will go away with faster and better processors. This paper presents an attempt to make APL work for Robotics with today's technology. The basic concept is quite simple: Leave to APL what it can do in real time and have another computer running a faster language do the rest. This allows for APL program development until the ...

14 A logic and signal flow diagram subsystem

G. Sanderson, A. Milici

June 1972 **Proceedings of the 9th workshop on Design automation**

Full text available: [pdf\(398.44 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper discusses a logic diagram subsystem which has recently been added to a comprehensive design automation system at the Sperry Division of the Sperry Rand Corporation. This step was taken to answer a number of needs that existed in the current system, specifically to simplify the data entry and checking task for large systems, and to capture engineering data at earlier stages of system development. With the addition of the logic diagram subsystem, data is now taken directly from ori ...

15 Virtual extension: Networked systems for schools that learn

James M. Laffey, Dale Musser, Herbert Remidez, Josh Gottdenker

September 2003 **Communications of the ACM**, Volume 46 Issue 9

Full text available: [pdf\(954.32 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

16 Design Automation for Deepsubmicron: Present and Future

March 2002 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: [pdf\(314.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

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Advancing technology drives design technology and thus design automation (EDA). How to model interconnect, how to handle degradation of signal integrity and increasing power density are changing now, and have led to integrating logic and layout synthesis. Aggressive gatesizing to control timing has become part of any modern back-end. From 0:13 μ and down, chips will be more susceptible to breakdown during fabrication (antenna effect) or to wear out over time (electromigration) and dealing with these i ...

17 Future performance challenges in nanometer design

Dennis Sylvester, Himanshu Kaul

June 2001 **Proceedings of the 38th conference on Design automation**

Full text available: [pdf\(252.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We highlight several fundamental challenges to designing high-performance integrated circuits in nanometer-scale technologies (i.e. draRita Glover, EDA Today, L.C.wn feature sizes < 100 nm). Dynamic power scaling trends lead to major packaging problems. To alleviate these concerns, Marc Halpern thermal monitoring and feedback mechanisms can limit worst-case dissipation and reduce costs. Furthermore, a flexible multi-Vdd + multi-Vth + re-sizing approach is advocated to leverage the inherent pr ...

18 Loom-constrained designs: An algebraic solution

Janice R. Lourie

August 1969 Proceedings of the 1969 24th national conferenceFull text available:  pdf(507.24 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an algebraic solution to the problem: given a diagrammatic representation of a woven design (weave), determine (1) the size and type of loom patterning mechanism necessary to produce it; (2) the initial conditions of this loom, i.e., the way the threads are connected to the patterning mechanism; and (3) the dynamic control information to this mechanism. First, the problem is solved for weaves of one layer (two dimensions). Then the method is extended to two-layer (three ...)

- 19 A proven operational CAD system for P.W.B. design-based on a mini-computer and featuring fully automatic placement and routing.**

G. L. Patterson, B. H. Phillips

June 1976 **Proceedings of the 13th conference on Design automation**Full text available:  pdf(425.58 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The introduction of electronic processor controlled switching systems has led to a re-appraisal of the methods of designing printed wiring boards to cope with the sheer numbers of designs required and their increasing complexity. The Company's policy is normally to realise the equipment on double sided printed wiring boards (pwb) containing a maximum of 80 integrated circuits per board plus discrete components. (Figs. 1 and 2) PWB requirements are frequently changing as new techn ...

- 20 An Introduction to Computing System Dependability**

May 2004 **Proceedings of the 26th International Conference on Software Engineering**Full text available:  pdf(60.05 KB)Additional Information: [full citation](#) Publisher Site

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Terms used **wiring harness and design**

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1 Three levels of the wiring interconnection problem

D. K. Frayne

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Full text available: [pdf\(469.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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2 Design automation and the WRAP System

J. A. Brown, L. J. Cesa, J. J. Sawicki

July 1968 **Proceedings of the 5th annual workshop on Design automation**

Full text available: [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The WRAP (Wire Routing and Packaging) System is a 7094 programming system for the automatic packaging and wiring of Aerospace computers. WRAP, originally written to assist in the packaging of IBM's System/4 Pi family of computers, has been applied to a wide range of package configurations. Use of the WRAP System has greatly reduced the time required to design and manufacture a machine. The system operates from a logic design recording system (SLDA), performs automatic packaging a ...

3 Manufacturing engineering and information

C. C. Zell

January 1967 **Proceedings of the 4th conference on Design automation**

Full text available: [pdf\(12.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes an operating computer-aided system (COMET), which processes Automated Wire List data into many forms required in manufacturing, assembly, installation and automated check out of electrical and electronic systems. The presentation presumes an operating Automated Wire List system and specifies some of the value benefits achieved at North American Aviation, Inc. The COMET description is presented from the viewpoint of Manufacturing Engineering as an interface communication ...

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Richard W. Wilson

January 1969 **Proceedings of the 6th annual conference on Design Automation**

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7 Future performance challenges in nanometer design

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Full text available:  pdf(252.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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8 Engineering Applications: Constraint-based design of optimal transport elements

Michael Drumheller

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available:  pdf(492.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An airliner contains thousands of transport elements, such as tubes, hoses, and wires. Transport elements must be designed subject to many constraints. Some are extrinsic, involving factors such as clearance, slope, and stay-out/stay-in zones. Others are intrinsic, involving factors such as bend angles and bend radii. A key problem is to design a feasible route that runs from A to B optimally (e.g., as short as possible). We describe an algorithm that allows "sketching" a route in terms of constr ...

Keywords: constraintbased, design, multi-criteria or multi-objective optimization, piping, routing, transport elements, tubing

9 Loom-constrained designs: An algebraic solution

Janice R. Louie

August 1969 **Proceedings of the 1969 24th national conference**

Full text available:  pdf(507.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an algebraic solution to the problem: given a diagrammatic representation of a woven design (weave), determine (1) the size and type of loom patterning mechanism necessary to produce it; (2) the initial conditions of this loom, i.e., the way the threads are connected to the patterning mechanism; and (3) the dynamic control information to this mechanism. First, the problem is solved for weaves of one layer (two dimensions). Then the method is extended to two-layer (three ...

10 A proven operational CAD system for P.W.B. design-based on a mini-computer and featuring fully automatic placement and routing.

G. L. Patterson, B. H. Phillips

June 1976 **Proceedings of the 13th conference on Design automation**

Full text available:  pdf(425.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The introduction of electronic processor controlled switching systems has led to a re-appraisal of the methods of designing printed wiring boards to cope with the sheer numbers of designs required and their increasing complexity. The Company's policy is normally to realise the equipment on double sided printed wiring boards (pwb) containing a maximum of 80 integrated circuits per board plus discrete components. (Figs. 1 and 2) PWB requirements are frequently changing as new techn ...

11 Automatic batch processing in multilayer ceramic metallization

Neil DalCero

June 1983 **Proceedings of the 20th conference on Design automation**

Full text available:  pdf(311.37 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes advances in the batch processing automation of multilayer ceramic metallization manufacturing. The metallization is a plating process that deposits electroless nickel and electroless gold on conductive molybdenum features. The plating operation involves the processing of up to 72 multilayer ceramic substrates in one group. Each product group automatically moves through 35 sequential chemical operations to complete the process. As a product is compl ...

12 Technologies for augmented reality systems: realizing ultrasound-guided needle biopsies

Andrei State, Mark A. Livingston, William F. Garrett, Gentaro Hirota, Mary C. Whitton, Etta D. Pisano, Henry Fuchs

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available:  pdf(972.89 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: 3D medical imaging, BSP tree, augmented reality, calibration, registration, stereo video see-through head-mounted display, ultrasound echography

13 Invited application paper: re-engineering C++ components via automatic program transformation

Robert L. Akers, Ira D. Baxter, Michael Mehlich

August 2004 **Proceedings of the 2004 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available: [pdf\(200.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automated program transformation holds promise for a variety of software life cycle endeavors, particularly where the size of legacy systems makes code analysis, re-engineering, and evolution very difficult and expensive. But constructing transformation tools that handle the full generality of modern languages and that scale to very large applications is itself a painstaking and expensive process. This cost can be managed by developing a common transformation system infrastructure that is re-use ...

Keywords: C++, abstract syntax trees, compilers, component architectures, legacy systems, migration, patterns, re-engineering, rewrite rules, software analysis, software transformation

14 TOBAC: a test case browser for testing object-oriented software

Ernst Siepmann, A. Richard Newton

August 1994 **Proceedings of the 1994 ACM SIGSOFT international symposium on Software testing and analysis**

Full text available: [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



15 Specifications for a design automation system

R. Mandell; G. Estrin

January 1965 **Proceedings of the SHARE design automation project**

Full text available: [pdf\(470.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is a brief discussion of the preliminary specifications design automation system (DAS) for digital devices. The goal of the proposed system is to allow a systems designer to describe his initial requirements to evaluate and modify his design as it passes through the various stages automatic implementation. The development of this system is motivated by need for generation of an extensive library of designs for use in the UCLA Variable Structure Computer System1

16 Design methodology for PicoRadio networks

J. da Silva, J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright

March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: [pdf\(328.60 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

17 Design and CAD Challenges in sub-90nm CMOS Technologies

Kerry Bernstein, Ching-Te Chuang, Rajiv Joshi, Ruchir Puri

November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**

Full text available: [pdf\(746.24 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This paper discusses design challenges of scaled CMOS circuits insub-90nm technologies for high-performance digital applications. To continue scaling of the CMOS devices deep into sub-90nm technologies, fully depleted SOI, strained-Si on SiGe, FinFETs withdouble gate, and even further, three-dimensional circuits will be utilizedto design high-performance circuits. We will discuss uniquesdesign aspects and issues resulting from this scaling such as gate-to-body tunneling, self-heating, reliability ...

18 Using Java to design and test hardware circuits over a classroom network

Michael J Jipping, Steve Marlowe, Alexander Sherstov



February 2002 **ACM SIGCSE Bulletin , Proceedings of the 33rd SIGCSE technical symposium on Computer science education**, Volume 34 Issue 1

Full text available:  pdf(418.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A crucial part of the Computer Organization course is the design and analysis of hardware circuits. To teach this part of the course efficiently and to involve the entire class in the design of circuits, we have designed the SCAN system. Starting with a textual specification of a circuit, SCAN generates Java classes that can be used to simulate the way the circuit works. These circuits can be simulated locally or can join with other circuits to simulate larger machine function over a network. Th ...

19 Combinatorial aspects of automated designs 

Solomon W. Golomb

January 1966 **Proceedings of the SHARE design automation project**

Full text available:  pdf(237.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the characteristic problems involved in design is geometric arrangement.

Components must be fitted onto a circuit card, or rooms must be fitted together to form a livable house, subject to certain constraints. These arrangement problems appear particularly difficult when viewed from the stand point of the traditional tools of mathematical analysis, analytical geometry, differential calculus, etc. However, there are various combinatorial procedures and algorithm ...

20 Molecular electronics: devices, systems and tools for gigagate, gigabit chips 

Michael Butts, Andrée DeHon, Seth Copen Goldstein

November 2002 **Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design**

Full text available:  pdf(606.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New electronics technologies are emerging which may carry us beyond the limits of lithographic processing down to molecular-scale feature sizes. Devices and interconnects can be made from a variety of molecules and materials including bistable and switchable organic molecules, carbon nanotubes, and, single-crystal semiconductor nanowires. They can be self-assembled into organized structures and attached onto lithographic substrates. This tutorial reviews emerging molecular-scale electronics tech ...

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Search Results - Record(s) 1 through 14 of 14 returned.

1. Document ID: US 20040211127 A1

Using default format because multiple data bases are involved.

L12: Entry 1 of 14

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040211127

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040211127 A1

TITLE: Floor-to-ceiling wall panel system

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wiechecki, Robert W.	Boothwyn	PA	US	
Cifelli, Michael F.	Thorndale	PA	US	

US-CL-CURRENT: 52/36.1; 52/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Drawn D
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2. Document ID: US 20040160089 A1

L12: Entry 2 of 14

File: PGPB

Aug 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040160089

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040160089 A1

TITLE: Instrument panel assembly

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gupta, Vikas	East Amherst	NY	US	
Koelman, Hein J.	Eppstein	MI	DE	
Rogers, Steve J.	Pinckney	MI	US	
Kurtycz, Eric	Lake Orion	MI	US	
Ramanathan, Ravi	Midland		US	

US-CL-CURRENT: 296/208

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

3. Document ID: US 20040130878 A1

L12: Entry 3 of 14

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040130878

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040130878 A1

TITLE: Method of assisting wiring design of wiring structure, its apparatus and its program

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sawai, Masayoshi	Kosai-shi		JP	
Yoneyama, Tomohiro	Kosai-shi		JP	
Nakano, Akiko	Kosai-shi		JP	

US-CL-CURRENT: 361/826

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

4. Document ID: US 20030089057 A1

L12: Entry 4 of 14

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030089057

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030089057 A1

TITLE: Floor-to-ceiling wall panel system

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wiechecki, Robert W.	Boothwyn	PA	US	
Cifelli, Michael F.	Thorndale	PA	US	

US-CL-CURRENT: 52/238.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

5. Document ID: US 20030062759 A1

L12: Entry 5 of 14

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030062759

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030062759 A1

TITLE: Seating system

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gupta, Vikas	Farmington Hills	MI	US	
Koelman, Hein J.	Eppstein	MI	DE	
Rogers, Steve J.	Pinckney	MI	US	
Kurtycz, Eric	Lake Orion	MI	US	
Ramanathan, Ravi	Midland		US	

US-CL-CURRENT: 297/452.65

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn De](#)

6. Document ID: US 20020161535 A1

L12: Entry 6 of 14

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161535

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161535 A1

TITLE: Flexure life estimating method, wire harness designing method and program thereof

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kawakita, Yuki	Mie		JP	
Inoue, Takuya	Mie		JP	
Kawabe, Hitoshi	Mie		JP	
Onoue, Hisayoshi	Mie		JP	
Furusyo, Masaru	Osaka		JP	
Ohuchi, Kouji	Osaka		JP	
Kaji, Mikio	Osaka		JP	

US-CL-CURRENT: 702/42

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn De](#)

7. Document ID: US 20010027890 A1

L12: Entry 7 of 14

File: PGPB

Oct 11, 2001

PGPUB-DOCUMENT-NUMBER: 20010027890

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010027890 A1

TITLE: Off-road vehicle

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bria, Joseph James	Danbury	CT	US	
Hammerstrom, Paul E.	Danbury	CT	US	
Patterson, Thomas C.	Westport	CT	US	
Dodman, Christopher Philip	Danbury	CT	US	
Floyd, Jared B.	New Milford	CT	US	

US-CL-CURRENT: 180/291; 180/312, 180/68.3, 280/830

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

8. Document ID: US 20010020223 A1

L12: Entry 8 of 14

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010020223

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010020223 A1

TITLE: Interface member wiring design support apparatus, wiring design method, wiring design support method, and computer-readable storage medium

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kodama, Nobuhiro	Hiroshima-ken		JP	
Yoshiyuki, Takashi	Hiroshima-ken		JP	
Hirano, Seiichi	Hiroshima-ken		JP	
Fukushima, Tomohiro	Hiroshima-ken		JP	

US-CL-CURRENT: 703/2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

9. Document ID: US 6739673 B2

L12: Entry 9 of 14

File: USPT

May 25, 2004

US-PAT-NO: 6739673

DOCUMENT-IDENTIFIER: US 6739673 B2

TITLE: Seating system

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gupta; Vikas	Farmington Hills	MI		
Koelman; Hein J.	Eppstein			DE
Rogers; Steve J.	Pinckney	MI		
Kurtycz; Eric	Lake Orion	MI		
Ramanathan; Ravi	Midland	MI		

US-CL-CURRENT: 297/452.65; 297/232, 297/233, 297/378.12, 297/378.13, 297/452.18

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

10. Document ID: US 5573716 A

L12: Entry 10 of 14

File: USPT

Nov 12, 1996

US-PAT-NO: 5573716

DOCUMENT-IDENTIFIER: US 5573716 A

TITLE: Continuous forming of complex molded shapes

DATE-ISSUED: November 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobson; Theodore L.	Pacifica	CA		

US-CL-CURRENT: 264/40.7; 264/167, 264/175, 264/177.17, 264/210.1, 264/214, 264/339,
425/140, 425/325, 425/334, 425/378.1 , 425/384, 425/391

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

11. Document ID: US 5318313 A

L12: Entry 11 of 14

File: USPT

Jun 7, 1994

US-PAT-NO: 5318313

DOCUMENT-IDENTIFIER: US 5318313 A

TITLE: Camera dally and pedestal

DATE-ISSUED: June 7, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chapman; Leonard T.	North Hollywood	CA		

US-CL-CURRENT: 280/47.11; 248/129, 254/423, 280/99

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

12. Document ID: US 5253446 A

L12: Entry 12 of 14

File: USPT

Oct 19, 1993

US-PAT-NO: 5253446

DOCUMENT-IDENTIFIER: US 5253446 A

TITLE: Flow-through fishing lure

DATE-ISSUED: October 19, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ogle; Donald E.	Kokomo	IN	46901	

US-CL-CURRENT: 43/42.13; 43/42, 43/42.06, 43/42.11, 43/42.12[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#)

 13. Document ID: US 4893496 A

L12: Entry 13 of 14

File: USPT

Jan 16, 1990

US-PAT-NO: 4893496

DOCUMENT-IDENTIFIER: US 4893496 A

**** See image for Certificate of Correction ****

TITLE: Torsional wave fluid sensor and system

DATE-ISSUED: January 16, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bau; Haim H.	Swarthmore	PA		
Kim; Jin O.	Philadelphia	PA		
Lynnworth; Lawrence C.	Waltham	MA		
Nguyen; Toan H.	Needham	MA		

US-CL-CURRENT: 73/32A; 73/152.55, 73/861.18[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#)

 14. Document ID: US 4864288 A

L12: Entry 14 of 14

File: USPT

Sep 5, 1989

US-PAT-NO: 4864288

DOCUMENT-IDENTIFIER: US 4864288 A

TITLE: Hall effect motion detector responsive to dual frequency stimuli

DATE-ISSUED: September 5, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Cross; Donald R.

Torrance

CA

US-CL-CURRENT: 340/669; 307/117, 340/429, 340/566, 340/683[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Blkwd Refs](#)[Generate OACS](#)

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1. Document ID: US 20040211127 A1

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L9: Entry 1 of 59

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040211127

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040211127 A1

TITLE: Floor-to-ceiling wall panel system

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wiechecki, Robert W.	Boothwyn	PA	US	
Cifelli, Michael F.	Thorndale	PA	US	

US-CL-CURRENT: 52/36.1; 52/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draum	Da
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2. Document ID: US 20040179170 A1

L9: Entry 2 of 59

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040179170

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040179170 A1

TITLE: OPERATOR SUPPORTED REMOTE CAMERA POSITIONING AND CONTROL SYSTEM WITH LONGERON BASED BEAM

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Harris, Thomas H.S.	Brooklyn	NY	US	

US-CL-CURRENT: 352/243

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draum	Da
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3. Document ID: US 20040160089 A1

L9: Entry 3 of 59

File: PGPB

Aug 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040160089
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040160089 A1

TITLE: Instrument panel assembly

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gupta, Vikas	East Amherst	NY	US	
Koelman, Hein J.	Eppstein	MI	DE	
Rogers, Steve J.	Pinckney	MI	US	
Kurtycz, Eric	Lake Orion	MI	US	
Ramanathan, Ravi	Midland		US	

US-CL-CURRENT: 296/208

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#)

4. Document ID: US 20040113027 A1

L9: Entry 4 of 59

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040113027
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040113027 A1

TITLE: Fastener for pipe or the like

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nakanishi, Hideaki	Toyohashi		JP	

US-CL-CURRENT: 248/68.1

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#)

5. Document ID: US 20030222183 A1

L9: Entry 5 of 59

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030222183
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030222183 A1

TITLE: Device for fixing wire harness

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kato, Mitsunobu	Shizuoka		JP	

US-CL-CURRENT: 248/49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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 6. Document ID: US 20030209891 A1

L9: Entry 6 of 59

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030209891

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030209891 A1

TITLE: Arrangement and construction of crew protective device for automobile

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kubota, Yasushi	Toyota-shi		JP	
Aono, Masamichi	Nishikamo-gun		JP	
Takahashi, Goro	Owariasahi-shi		JP	
Ohtsuka, Takuya	Numazu-shi		JP	
Shibata, Minoru	Inazawa-shi		JP	
Nagai, Yutaka	Ichinomiya-shi		JP	
Tajima, Hiroyuki	Chiryu-shi		JP	
Kobayashi, Fumitake	Inazawa-shi		JP	
Nakajima, Hiroki	Nagoya-shi		JP	
Totani, Chiharu	Gifu-shi		JP	
Tanaka, Tadao	Nagoya-shi		JP	
Noto, Katsunori	Toyota-shi		JP	

US-CL-CURRENT: 280/730.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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 7. Document ID: US 20030141102 A1

L9: Entry 7 of 59

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030141102

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030141102 A1

TITLE: Fitting device of wiring harness protector mounted in vehicle sliding door

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Doshita, Kenichi	Shizuoka		JP	
Aoki, Tohru	Shizuoka		JP	

US-CL-CURRENT: 174/135

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)

 8. Document ID: US 20030116374 A1

L9: Entry 8 of 59

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030116374

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030116374 A1

TITLE: Mobile chassis and interchangeable vehicle body with waste heat rejection system

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chernoff, Adrian B.	Royal Oak	MI	US	
Borroni-Bird, Christopher E.	Oakland Township	MI	US	
Shabana, Mohsen D.	Ann Arbor	MI	US	
Vitale, Robert Louis	Macomb Township	MI	US	

US-CL-CURRENT: 180/291

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)

 9. Document ID: US 20030093012 A1

L9: Entry 9 of 59

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093012

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030093012 A1

TITLE: Isometric system, method and apparatus

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Smyser, Michael A.	Galena	OH	US	
Wiley, Ronald L.	Oxford	OH	US	
Harris, Thomas L.	Powell	OH	US	

US-CL-CURRENT: 600/595

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#) 10. Document ID: US 20030089057 A1

L9: Entry 10 of 59

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030089057

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030089057 A1

TITLE: Floor-to-ceiling wall panel system

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wiechecki, Robert W.	Boothwyn	PA	US	
Cifelli, Michael F.	Thorndale	PA	US	

US-CL-CURRENT: 52/238.1[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#) 11. Document ID: US 20030062759 A1

L9: Entry 11 of 59

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030062759

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030062759 A1

TITLE: Seating system

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gupta, Vikas	Farmington Hills	MI	US	
Koelman, Hein J.	Eppstein	MI	DE	
Rogers, Steve J.	Pinckney	MI	US	
Kurtycz, Eric	Lake Orion	MI	US	
Ramanathan, Ravi	Midland		US	

US-CL-CURRENT: 297/452.65[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#) 12. Document ID: US 20030044136 A1

L9: Entry 12 of 59

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044136

PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030044136 A1

TITLE: Optical fiber cable and optical fiber cable with plug

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nakamura, Kazuki	Tokyo		JP	
Kitayama, Takeshi	Toyama-shi		JP	
Yamamoto, Takara	Toyama-shi		JP	
Kubo, Hiroe	Toyama-shi		JP	
Kamimura, Yoshimi	Toyama-shi		JP	
Okumura, Jun	Toyama-shi		JP	

US-CL-CURRENT: 385/102; 385/128, 385/145

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

13. Document ID: US 20030038470 A1

L9: Entry 13 of 59

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030038470
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030038470 A1

TITLE: Mobile chassis and interchangeable vehicle body with a heating, ventilation and air conditioning system

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chernoff, Adrian B.	Royal Oak	MI	US	
Borroni-Bird, Christopher E.	Oakland Township	MI	US	
Shabana, Mohsen D.	Ann Arbor	MI	US	
Vitale, Robert Louis	Macomb Township	MI	US	

US-CL-CURRENT: 280/782

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

14. Document ID: US 20020112406 A1

L9: Entry 14 of 59

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020112406
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20020112406 A1

TITLE: Automobile door and automobile door module

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tokui, Takeshi	Wako-shi		JP	
Ishikawa, Kenichi	Chita-gun		JP	
Noguchi, Fumio	Chita-gun		JP	
Hasunuma, Mitsuo	Aiko-gun		JP	
Hashimoto, Hideyuki	Aiko-gun		JP	

US-CL-CURRENT: 49/502

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn
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 15. Document ID: US 20020045378 A1

L9: Entry 15 of 59

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020045378

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020045378 A1

TITLE: Multifunction retractable connector

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Johnson, Thomas A.	Draper	UT	US	
Tucker, Patrick A.	Sandy	UT	US	
Loforte, Steven	Copperton	UT	US	
Olipphant, David	West Jordan	UT	US	

US-CL-CURRENT: 439/381

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn
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 16. Document ID: US 20020024202 A1

L9: Entry 16 of 59

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020024202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020024202 A1

TITLE: Arrangement and construction of crew protective device for automobile

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kubota, Yasushi	Toyota-shi		JP	

Aono, Masamichi	Nishikamo-gun	JP
Takahashi, Goro	Owariasahi-shi	JP
Ohtsuka, Takuya	Numazu-shi	JP
Shibata, Minoru	Inazawa-shi	JP
Nagai, Yutaka	Ichinomiya-shi	JP
Tajima, Hiroyuki	Chiryu-shi	JP
Kobayashi, Fumitake	Inazawa-shi	JP
Nakajima, Hiroki	Nagoya-shi	JP
Totani, Chiharu	Gifu-shi	JP
Tanaka, Tadao	Nagoya-shi	JP
Noto, Katsunori	Toyota-shi	JP

US-CL-CURRENT: 280/730.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)

17. Document ID: US 20010027270 A1

L9: Entry 17 of 59

File: PGPB

Oct 4, 2001

PGPUB-DOCUMENT-NUMBER: 20010027270

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010027270 A1

TITLE: Bio-electric interface adapter with twelve-lead ECG capability and provision for defibrillation

PUBLICATION-DATE: October 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stratbucker, Robert A.	Omaha	NE	US	

US-CL-CURRENT: 600/382; 600/152, 600/390, 600/393, 607/142

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)

18. Document ID: US 20010020223 A1

L9: Entry 18 of 59

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010020223

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010020223 A1

TITLE: Interface member wiring design support apparatus, wiring design method, wiring design support method, and computer-readable storage medium

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Kodama, Nobuhiro	Hiroshima-ken	JP
Yoshiyuki, Takashi	Hiroshima-ken	JP
Hirano, Seiichi	Hiroshima-ken	JP
Fukushima, Tomohiro	Hiroshima-ken	JP

US-CL-CURRENT: 703/2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

 19. Document ID: US 6791032 B2

L9: Entry 19 of 59

File: USPT

Sep 14, 2004

US-PAT-NO: 6791032

DOCUMENT-IDENTIFIER: US 6791032 B2

TITLE: Fitting device of wiring harness protector mounted in vehicle sliding door

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doshita; Kenichi	Shizuoka			JP
Aoki; Tohru	Shizuoka			JP

US-CL-CURRENT: 174/135; 174/136, 174/72A, 439/447

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

 20. Document ID: US 6754991 B2

L9: Entry 20 of 59

File: USPT

Jun 29, 2004

US-PAT-NO: 6754991

DOCUMENT-IDENTIFIER: US 6754991 B2

**** See image for Certificate of Correction ****

TITLE: Automobile door and annular module frame therefor

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tokui; Takeshi	Wako			JP
Ishikawa; Kenichi	Chita-gun			JP
Noguchi; Fumio	Chita-gun			JP
Hasunuma; Mitsuo	Aiko-gun			JP
Hashimoto; Hideyuki	Aiko-gun			JP

US-CL-CURRENT: 49/502

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

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Generate OACS				

Search Results - Record(s) 21 through 40 of 59 returned.

21. Document ID: US 6739673 B2

Using default format because multiple data bases are involved.

L9: Entry 21 of 59

File: USPT

May 25, 2004

US-PAT-NO: 6739673

DOCUMENT-IDENTIFIER: US 6739673 B2

TITLE: Seating system

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gupta; Vikas	Farmington Hills	MI		
Koelman; Hein J.	Eppstein			DE
Rogers; Steve J.	Pinckney	MI		
Kurtycz; Eric	Lake Orion	MI		
Ramanathan; Ravi	Midland	MI		

US-CL-CURRENT: 297/452.65; 297/232, 297/233, 297/378.12, 297/378.13, 297/452.18

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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22. Document ID: US 6672240 B1

L9: Entry 22 of 59

File: USPT

Jan 6, 2004

US-PAT-NO: 6672240

DOCUMENT-IDENTIFIER: US 6672240 B1

TITLE: Deck boat

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aube; Martin	St-Bruno-de-Montarville			CA
Kalhok; David	Marlon	IL		
Rheault; Alain	Longueuil			CA
Adamczyk; Rick	St. Cloud	FL		

US-CL-CURRENT: 114/343; 114/361, 114/362, 114/363, 114/364, 440/38, 440/89R

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

23. Document ID: US 6627817 B1

L9: Entry 23 of 59

File: USPT

Sep 30, 2003

US-PAT-NO: 6627817

DOCUMENT-IDENTIFIER: US 6627817 B1

TITLE: Process and device for holding and threading elongate objects

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kortenbach; Martinus	Augustin			DE

US-CL-CURRENT: 174/74R; 174/65G

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

24. Document ID: US 6565117 B2

L9: Entry 24 of 59

File: USPT

May 20, 2003

US-PAT-NO: 6565117

DOCUMENT-IDENTIFIER: US 6565117 B2

TITLE: Arrangement and construction of crew protective device for automobile

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kubota; Yasushi	Toyota			JP
Aono; Masamichi	Nishikamo-gun			JP
Takahashi; Goro	Owariasahi			JP
Ohtsuka; Takuya	Numazu			JP
Shibata; Minoru	Inazawa			JP
Nagai; Yutaka	Ichinomiya			JP
Tajima; Hiroyuki	Chiryu			JP
Kobayashi; Fumitake	Inazawa			JP
Nakajima; Hiroki	Nagoya			JP
Totani; Chiharu	Gifu			JP
Tanaka; Tadao	Nagoya			JP
Noto; Katsunori	Toyota			JP

US-CL-CURRENT: 280/730.2; 280/728.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

25. Document ID: US 6532379 B2

L9: Entry 25 of 59

File: USPT

Mar 11, 2003

US-PAT-NO: 6532379

DOCUMENT-IDENTIFIER: US 6532379 B2

TITLE: Bio-electric interface adapter with twelve-lead ECG capability and provision for defibrillation

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stratbucker; Robert A.	Omaha	NE	68152	

US-CL-CURRENT: 600/382; 600/390, 600/391, 600/393, 607/142, 607/149, 607/152[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMIC](#) | [Drawn](#) 26. Document ID: US 6457994 B1

L9: Entry 26 of 59

File: USPT

Oct 1, 2002

US-PAT-NO: 6457994

DOCUMENT-IDENTIFIER: US 6457994 B1

** See image for Certificate of Correction **TITLE: Media connector that allows electrical communication to be established with a media plug

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Thomas A.	Draper	UT		
Tucker; Patrick A.	Sandy	UT		
Loforte; Steven	Copperton	UT		
Olipphant; David	West Jordan	UT		

US-CL-CURRENT: 439/492; 439/131, 439/329, 439/676, 439/946[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMIC](#) | [Drawn](#) 27. Document ID: US 6416339 B1

L9: Entry 27 of 59

File: USPT

Jul 9, 2002

US-PAT-NO: 6416339

DOCUMENT-IDENTIFIER: US 6416339 B1

TITLE: Telecommunications cabling arrangement

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snow; Richard Herbert	Deer Trail	CO		
Pickles; Timothy James	Aurora	CO		
Johnson; Ross S.	Hudsonville	MI		
Reddig; Ralph	Grand Rapids	MI		
Emery; David E.	North Muskegon	MI		

US-CL-CURRENT: 439/215

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Dra... D
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 28. Document ID: US 6354528 B1

L9: Entry 28 of 59

File: USPT

Mar 12, 2002

US-PAT-NO: 6354528

DOCUMENT-IDENTIFIER: US 6354528 B1

TITLE: Webbing retractor

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nagata; Tomonori	Aichi-ken			JP
Hori; Seiji	Aichi-ken			JP
Sumiyashiki; Akira	Aichi-ken			JP
Asagiri; Katsuki	Aichi-ken			JP

US-CL-CURRENT: 242/374; 242/379.1, 242/383.2, 242/383.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Dra... D
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 29. Document ID: US 6340790 B1

L9: Entry 29 of 59

File: USPT

Jan 22, 2002

US-PAT-NO: 6340790

DOCUMENT-IDENTIFIER: US 6340790 B1

TITLE: Means and method for integrated lighting fixture supports and components

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gordin; Myron K.	Oskaloosa	IA		
Drost; James L.	Oskaloosa	IA		

US-CL-CURRENT: 174/45R; 362/249, 362/396, 362/431, 405/232

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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 30. Document ID: US 6333515 B1

L9: Entry 30 of 59

File: USPT

Dec 25, 2001

US-PAT-NO: 6333515

DOCUMENT-IDENTIFIER: US 6333515 B1

TITLE: Arrangement and construction of crew protective device for automobile

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kubota; Yasushi	Toyota			JP
Aono; Masamichi	Nishikamo-gun			JP
Takahashi; Goro	Owariasahi			JP
Ohtsuka; Takuya	Numazu			JP
Shibata; Minoru	Inazawa			JP
Nagai; Yutaka	Ichinomiya			JP
Tajima; Hiroyuki	Chiryu			JP
Kobayashi; Fumitake	Inazawa			JP
Nakajima; Hiroki	Nagoya			JP
Totani; Chiharu	Gifu			JP
Tanaka; Tadao	Nagoya			JP
Noto; Katsunori	Toyota			JP

US-CL-CURRENT: 280/730.2; 280/728.1, 280/743.1, 280/748

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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 31. Document ID: US 6286512 B1

L9: Entry 31 of 59

File: USPT

Sep 11, 2001

US-PAT-NO: 6286512

DOCUMENT-IDENTIFIER: US 6286512 B1

TITLE: Electrosurgical device and procedure for forming a channel within tissue

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loeb; Marvin P.	Huntington Beach	CA		
Crawford; L. Dean	Irvine	CA		
Shaolian; Samuel M.	Laguna Niguel	CA		

US-CL-CURRENT: 128/898; 606/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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32. Document ID: US 6101684 A

L9: Entry 32 of 59

File: USPT

Aug 15, 2000

US-PAT-NO: 6101684

DOCUMENT-IDENTIFIER: US 6101684 A

TITLE: Self-aligning handling or storing device and methods of use therefor

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginocchio; Mark H.	St. Petersburg	FL	33701	

US-CL-CURRENT: 24/16R; 24/20R, 24/270, 24/543, 24/557

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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33. Document ID: US 6098526 A

L9: Entry 33 of 59

File: USPT

Aug 8, 2000

US-PAT-NO: 6098526

DOCUMENT-IDENTIFIER: US 6098526 A

TITLE: Automated corn popping apparatus with oil conduit system

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stein; Andrew M.	Floral Park	NY		
Jinks; Andrew	Amityville	NY		
Murphy; Robert	Lindenhurst	NY		

US-CL-CURRENT: 99/323.9; 99/323.7, 99/323.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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34. Document ID: US 6089892 A

L9: Entry 34 of 59

File: USPT

Jul 18, 2000

US-PAT-NO: 6089892

DOCUMENT-IDENTIFIER: US 6089892 A

** See image for Certificate of Correction **

TITLE: Telecommunications cabling arrangement

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snow; Richard Herbert	Deer Trail	CO		
Pickles; Timothy James	Aurora	CO		
Johnson; Ross S.	Hudsonville	MI		
Reddig; Ralph	Grand Rapids	MI		
Emery; David E.	North Muskegon	MI		

US-CL-CURRENT: 439/217; 174/49

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

 35. Document ID: US 6084622 A

L9: Entry 35 of 59

File: USPT

Jul 4, 2000

US-PAT-NO: 6084622

DOCUMENT-IDENTIFIER: US 6084622 A

**** See image for Certificate of Correction ****

TITLE: Frame structure and an image forming apparatus using such a frame structure

DATE-ISSUED: July 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugiura; Yoshinori	Kawasaki			JP
Azuma; Jun	Kawasaki			JP
Adachi; Nobukazu	Yokohama			JP
Setoriyama; Takeshi	Toride			JP
Tenpaku; Chitose	Kawasaki			JP
Ishikawa; Noriyoshi	Yokohama			JP
Hamada; Tatsuo	Kawasaki			JP
Tsuchiya; Yoshiro	Yokohama			JP
Kubota; Takeshi	Tama			JP
Nomura; Yoshiya	Tokyo			JP
Kuroda; Akira	Yokohama			JP
Murooka; Ken	Toride			JP
Sugita; Takeshi	Yokohama			JP
Niimura; Takeshi	Musashino			JP
Yuza; Akira	Yokohama			JP

US-CL-CURRENT: 347/170

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

 36. Document ID: US 5925393 A

L9: Entry 36 of 59

File: USPT

Jul 20, 1999

US-PAT-NO: 5925393

DOCUMENT-IDENTIFIER: US 5925393 A

TITLE: Method of popping corn

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stein; Andrew M.	Floral Park	NY		
Jinks; Andrew	Amityville	NY		
Murphy; Robert	Lindenhurst	NY		

US-CL-CURRENT: 426/233; 426/438, 426/450[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

 37. Document ID: US 5810245 A

L9: Entry 37 of 59

File: USPT

Sep 22, 1998

US-PAT-NO: 5810245

DOCUMENT-IDENTIFIER: US 5810245 A

TITLE: Method and apparatus for controlling air flow in a structure

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Heitman; Lynn Byron	Parker	TX	75002	
Ezell; George D.	Grandbury	TX	76048	

US-CL-CURRENT: 236/49.3; 165/208, 236/51, 236/78C, 251/129.11[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

 38. Document ID: US 5787323 A

L9: Entry 38 of 59

File: USPT

Jul 28, 1998

US-PAT-NO: 5787323

DOCUMENT-IDENTIFIER: US 5787323 A

**** See image for Certificate of Correction ****

TITLE: Image forming apparatus having a detachably mountable process cartridge

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nomura; Yoshiya	Tokyo			JP
Sugiura; Yoshinori	Kawasaki			JP

Tsuchiya; Yoshiro

Yokohama

JP

US-CL-CURRENT: 399/111; 399/125[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#) 39. Document ID: US 5771779 A

L9: Entry 39 of 59

File: USPT

Jun 30, 1998

US-PAT-NO: 5771779

DOCUMENT-IDENTIFIER: US 5771779 A

TITLE: Automated corn popping apparatus

DATE-ISSUED: June 30, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stein; Andrew M.	Floral Park	NY		
Jinks; Andrew	Amityville	NY		
Murphy; Robert	Lindenhurst	NY		

US-CL-CURRENT: 99/323.7; 99/323.9[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#) 40. Document ID: US 5721646 A

L9: Entry 40 of 59

File: USPT

Feb 24, 1998

US-PAT-NO: 5721646

DOCUMENT-IDENTIFIER: US 5721646 A

**** See image for Certificate of Correction ****

TITLE: Exterior rearview mirror for vehicles

DATE-ISSUED: February 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Catlin; Michael R.	Holland	MI		
Gahan; Edward A.	Fennville	MI		

US-CL-CURRENT: 359/865; 248/476, 359/872, 359/877[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Blkwd Refs](#)[Generate OACS](#)

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Search Results - Record(s) 41 through 59 of 59 returned.

41. Document ID: US 5637003 A

Using default format because multiple data bases are involved.

L9: Entry 41 of 59

File: USPT

Jun 10, 1997

US-PAT-NO: 5637003

DOCUMENT-IDENTIFIER: US 5637003 A

TITLE: Lever connector

DATE-ISSUED: June 10, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Hiroki	Shizuoka			JP

US-CL-CURRENT: 439/157; 439/153

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUDOC](#) | [Drawn Obj](#)

42. Document ID: US 5634178 A

L9: Entry 42 of 59

File: USPT

May 27, 1997

US-PAT-NO: 5634178

DOCUMENT-IDENTIFIER: US 5634178 A

**** See image for Certificate of Correction ****

TITLE: Gear unit, image forming apparatus and gear unit mounting method

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugiura; Yoshinori	Kawasaki			JP
Azuma; Jun	Kawasaki			JP
Adachi; Nobukazu	Yokohama			JP
Setoriyama; Takeshi	Toride			JP
Tenpaku; Chitose	Kawasaki			JP
Ishikawa; Noriyoshi	Yokohama			JP
Hamada; Tatsuo	Kawasaki			JP
Tsuchiya; Yoshiro	Yokohama			JP
Kubota; Takeshi	Tama			JP
Nomura; Yoshiya	Tokyo			JP

Kuroda; Akira	Yokohama	JP
Murooka; Ken	Toride	JP
Sugita; Takeshi	Yokohama	JP
Niimura; Takeshi	Musashino	JP
Yuza; Akira	Yokohama	JP

US-CL-CURRENT: 399/110; 399/107

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

43. Document ID: US 5573716 A

L9: Entry 43 of 59

File: USPT

Nov 12, 1996

US-PAT-NO: 5573716

DOCUMENT-IDENTIFIER: US 5573716 A

TITLE: Continuous forming of complex molded shapes

DATE-ISSUED: November 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobson; Theodore L.	Pacifica	CA		

US-CL-CURRENT: 264/40.7; 264/167, 264/175, 264/177.17, 264/210.1, 264/214, 264/339,
425/140, 425/325, 425/334, 425/378.1 , 425/384, 425/391

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

44. Document ID: US 5561496 A

L9: Entry 44 of 59

File: USPT

Oct 1, 1996

US-PAT-NO: 5561496

DOCUMENT-IDENTIFIER: US 5561496 A

** See image for Certificate of Correction **

TITLE: Image forming apparatus, assembling method of image forming apparatus, and mounting method of outer casing

DATE-ISSUED: October 1, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugiura; Yoshinori	Kawasaki			JP
Azuma; Jun	Kawasaki			JP
Adachi; Nobukazu	Yokohama			JP
Setoriyama; Takeshi	Toride			JP
Tenpaku; Chitose	Kawasaki			JP
Ishikawa; Noriyoshi	Yokohama			JP
Hamada; Tatsuo	Kawasaki			JP

Tsuchiya; Yoshiro	Yokohama	JP
Kubota; Takeshi	Tama	JP
Nomura; Yoshiya	Tokyo	JP
Kuroda; Akira	Yokohama	JP
Murooka; Ken	Toride	JP
Sugita; Takeshi	Yokohama	JP
Niimura; Takeshi	Musashino	JP
Yuza; Akira	Yokohama	JP

US-CL-CURRENT: 399/107; 29/469, 29/592.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

45. Document ID: US 5559581 A

L9: Entry 45 of 59

File: USPT

Sep 24, 1996

US-PAT-NO: 5559581

DOCUMENT-IDENTIFIER: US 5559581 A

**** See image for Certificate of Correction ****

TITLE: Image forming apparatus with helical gear drive train

DATE-ISSUED: September 24, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugiura; Yoshinori	Kawasaki			JP
Azuma; Jun	Kawasaki			JP
Adachi; Nobukazu	Yokohama			JP
Setoriyama; Takeshi	Toride			JP
Tenpaku; Chitose	Kawasaki			JP
Ishikawa; Noriyoshi	Yokohama			JP
Hamada; Tatsuo	Kawasaki			JP
Tsuchiya; Yoshiro	Yokohama			JP
Kubota; Takeshi	Tama			JP
Nomura; Yoshiya	Tokyo			JP
Kuroda; Akira	Yokohama			JP
Murooka; Ken	Toride			JP
Sugita; Takeshi	Yokohama			JP
Niimura; Takeshi	Musashino			JP
Yuza; Akira	Yokohama			JP

US-CL-CURRENT: 399/111

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

46. Document ID: US 5479060 A

L9: Entry 46 of 59

File: USPT

Dec 26, 1995

US-PAT-NO: 5479060

DOCUMENT-IDENTIFIER: US 5479060 A

TITLE: Brush assembly for a rotating ice protection system

DATE-ISSUED: December 26, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Giamati; Michael J.	Akron	OH		
Wilson, Jr.; Tommy M.	Stow	OH		

US-CL-CURRENT: 310/232; 244/134D[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#)

 47. Document ID: US 5411421 A

L9: Entry 47 of 59

File: USPT

May 2, 1995

US-PAT-NO: 5411421

DOCUMENT-IDENTIFIER: US 5411421 A

**** See image for Certificate of Correction ****TITLE: Micropin connector system

DATE-ISSUED: May 2, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McCardell, Jr.; Willard B.	Rochester	MI		

US-CL-CURRENT: 439/879; 439/752[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#)

 48. Document ID: US 5375677 A

L9: Entry 48 of 59

File: USPT

Dec 27, 1994

US-PAT-NO: 5375677

DOCUMENT-IDENTIFIER: US 5375677 A

TITLE: Body frame for a motorcycle

DATE-ISSUED: December 27, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamagiwa; Toshio	Niiza			JP
Maruoka; Shigehiro	Oomiya			JP
Suzuki; Keiji	Tokyo			JP
Horiike; Takeo	Kawagoe			JP

US-CL-CURRENT: 180/219; 180/311, 280/281.1, 280/288.2, 280/288.3[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#) 49. Document ID: US 5352855 A

L9: Entry 49 of 59

File: USPT

Oct 4, 1994

US-PAT-NO: 5352855

DOCUMENT-IDENTIFIER: US 5352855 A

** See image for Certificate of Correction **TITLE: Junction clamp for wiring harness

DATE-ISSUED: October 4, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Potter; Lex B.	Columbus	IN		

US-CL-CURRENT: 174/135; 174/71R, 174/72R, 248/74.3, 285/133.11, 285/420, 285/424[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#) 50. Document ID: US 5318313 A

L9: Entry 50 of 59

File: USPT

Jun 7, 1994

US-PAT-NO: 5318313

DOCUMENT-IDENTIFIER: US 5318313 A

TITLE: Camera dally and pedestal

DATE-ISSUED: June 7, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chapman; Leonard T.	North Hollywood	CA		

US-CL-CURRENT: 280/47.11; 248/129, 254/423, 280/99[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#) 51. Document ID: US 5295875 A

L9: Entry 51 of 59

File: USPT

Mar 22, 1994

US-PAT-NO: 5295875

DOCUMENT-IDENTIFIER: US 5295875 A

TITLE: Micropin connector system

DATE-ISSUED: March 22, 1994

INVENTOR-INFORMATION:

NAME McCardell; Willard B.	CITY Rochester	STATE MI	ZIP CODE	COUNTRY
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US-CL-CURRENT: 439/851; 439/856, 439/879

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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 52. Document ID: US 5255678 A

L9: Entry 52 of 59

File: USPT

Oct 26, 1993

US-PAT-NO: 5255678

DOCUMENT-IDENTIFIER: US 5255678 A

TITLE: Mapping electrode balloon

DATE-ISSUED: October 26, 1993

INVENTOR-INFORMATION:

NAME Deslauriers; Antoine	CITY Montreal	STATE	ZIP CODE	COUNTRY CA
Savard; Pierre	Ste-Therese			CA
Page; Pierre	Terrebonne			CA
Cardinal; Rene	Outremont			CA
Rousseau; Josee	Montreal			CA

US-CL-CURRENT: 600/375; 600/393, 607/122

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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 53. Document ID: US 5211589 A

L9: Entry 53 of 59

File: USPT

May 18, 1993

US-PAT-NO: 5211589

DOCUMENT-IDENTIFIER: US 5211589 A

TITLE: Micropin connector system

DATE-ISSUED: May 18, 1993

INVENTOR-INFORMATION:

NAME McCardell; Willard B.	CITY Rochester	STATE	ZIP CODE	COUNTRY MI
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US-CL-CURRENT: 439/879; 439/176, 439/891

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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 54. Document ID: US 5151052 A

L9: Entry 54 of 59

File: USPT

Sep 29, 1992

US-PAT-NO: 5151052

DOCUMENT-IDENTIFIER: US 5151052 A

TITLE: Micropin connector system

DATE-ISSUED: September 29, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McCardell; Willard B.	Rochester Hills	MI		

US-CL-CURRENT: 439/598; 439/595, 439/599, 439/752

Full	Title	Citation	Front	Review	Classification	Date	Reference	<u>Sequences</u>	<u>Attachments</u>	Claims	KMPC	Drawn D
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 55. Document ID: US 5125685 A

L9: Entry 55 of 59

File: USPT

Jun 30, 1992

US-PAT-NO: 5125685

DOCUMENT-IDENTIFIER: US 5125685 A

** See image for Certificate of Correction **

TITLE: Cable reel for expandable and contractible steering device of vehicle

DATE-ISSUED: June 30, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Masaki	Furukawa			JP
Kato; Hironori	Sendai			JP
Takezawa; Masashi	Utsunomiya			JP

US-CL-CURRENT: 280/775; 74/493

Full	Title	Citation	Front	Review	Classification	Date	Reference	<u>Sequences</u>	<u>Attachments</u>	Claims	KMPC	Drawn D
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 56. Document ID: US 5100346 A

L9: Entry 56 of 59

File: USPT

Mar 31, 1992

US-PAT-NO: 5100346

DOCUMENT-IDENTIFIER: US 5100346 A

** See image for Certificate of Correction **TITLE: Micropin connector system

DATE-ISSUED: March 31, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

McCardell; Willard B.

Rochester MI

US-CL-CURRENT: 439/595; 439/598, 439/752[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#) 57. Document ID: US 4989665 A

L9: Entry 57 of 59

File: USPT

Feb 5, 1991

US-PAT-NO: 4989665

DOCUMENT-IDENTIFIER: US 4989665 A

TITLE: Casting mold for a hollow member

DATE-ISSUED: February 5, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamagiwa; Toshio	Niiza			JP
Maruoka; Shigehiro	Oomiya			JP
Suzuki; Keiji	Tokyo			JP
Horiike; Takeo	Kawagoe			JP

US-CL-CURRENT: 164/363; 164/133, 164/135, 180/219, 180/311, 280/281.1, 280/288.3[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#) 58. Document ID: US 4893496 A

L9: Entry 58 of 59

File: USPT

Jan 16, 1990

US-PAT-NO: 4893496

DOCUMENT-IDENTIFIER: US 4893496 A

** See image for Certificate of Correction **

TITLE: Torsional wave fluid sensor and system

DATE-ISSUED: January 16, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bau; Haim H.	Swarthmore	PA		
Kim; Jin O.	Philadelphia	PA		
Lynnworth; Lawrence C.	Waltham	MA		
Nguyen; Toan H.	Needham	MA		

US-CL-CURRENT: 73/32A; 73/152.55, 73/861.18[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

59. Document ID: US 4373440 A

L9: Entry 59 of 59

File: USPT

Feb 15, 1983

US-PAT-NO: 4373440

DOCUMENT-IDENTIFIER: US 4373440 A

TITLE: Hammer bank assembly

DATE-ISSUED: February 15, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jezbera; Val K.	Thousand Oaks	CA	91360	

US-CL-CURRENT: 101/93.34; 101/93.48[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMIC](#) [Drawn D](#)[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate QACS](#)

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FIXABCX	4
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FIXABILITY	1893
(L8 AND FIX\$).PGPB,USPT.	59

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1. Document ID: US 20040179170 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 21

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040179170

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040179170 A1

TITLE: OPERATOR SUPPORTED REMOTE CAMERA POSITIONING AND CONTROL SYSTEM WITH LONGERON BASED BEAM

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Harris, Thomas H.S.	Brooklyn	NY	US	

US-CL-CURRENT: 352/243

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn De](#)

2. Document ID: US 20040130878 A1

L15: Entry 2 of 21

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040130878

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040130878 A1

TITLE: Method of assisting wiring design of wiring structure, its apparatus and its program

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sawai, Masayoshi	Kosai-shi		JP	
Yoneyama, Tomohiro	Kosai-shi		JP	
Nakano, Akiko	Kosai-shi		JP	

US-CL-CURRENT: 361/826

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn De](#)

3. Document ID: US 20040129549 A1

L15: Entry 3 of 21

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040129549
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040129549 A1

TITLE: Flexible switch and method for producing the same

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Serizawa, Yasuyoshi	Susono-Shi		JP	
Kubota, Minoru	Susono-Shi		JP	
Nishitani, Keizo	Susono-Shi		JP	
Kawaguchi, Kenichiro	Susono-Shi		JP	

US-CL-CURRENT: 200/513[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMIC](#) [Drawn D](#) 4. Document ID: US 20030169522 A1

L15: Entry 4 of 21

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030169522
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030169522 A1

TITLE: Vehicle accessory module

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schofield, Kenneth	Holland	MI	US	
DeWard, Joshua L.	Holland	MI	US	
Whitehead, Peter J.	Holland	MI	US	
Lynam, Niall R.	Holland	MI	US	

US-CL-CURRENT: 359/876; 248/481[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMIC](#) [Drawn D](#) 5. Document ID: US 20030029709 A1

L15: Entry 5 of 21

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030029709
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030029709 A1

TITLE: Flexible switch and method for producing the same

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Serizawa, Yasuyoshi	Susono-Shi		JP	
Kubota, Minoru	Susono-Shi		JP	
Nishitani, Keizo	Susono-Shi		JP	
Kawaguchi, Kenichiro	Susono-Shi		JP	

US-CL-CURRENT: 200/512

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#)

6. Document ID: US 20020161535 A1

L15: Entry 6 of 21

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161535

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161535 A1

TITLE: Flexure life estimating method, wire harness designing method and program thereof

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kawakita, Yuki	Mie		JP	
Inoue, Takuya	Mie		JP	
Kawabe, Hitoshi	Mie		JP	
Onoue, Hisayoshi	Mie		JP	
Furusyo, Masaru	Osaka		JP	
Ohuchi, Kouji	Osaka		JP	
Kaji, Mikio	Osaka		JP	

US-CL-CURRENT: 702/42

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Drawn D](#)

7. Document ID: US 20010020223 A1

L15: Entry 7 of 21

File: PGPB

Sep 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010020223

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010020223 A1

TITLE: Interface member wiring design support apparatus, wiring design method,

wiring design support method, and computer-readable storage medium

PUBLICATION-DATE: September 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kodama, Nobuhiro	Hiroshima-ken		JP	
Yoshiyuki, Takashi	Hiroshima-ken		JP	
Hirano, Seiichi	Hiroshima-ken		JP	
Fukushima, Tomohiro	Hiroshima-ken		JP	

US-CL-CURRENT: 703/2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

8. Document ID: US 6824281 B2

L15: Entry 8 of 21

File: USPT

Nov 30, 2004

US-PAT-NO: 6824281

DOCUMENT-IDENTIFIER: US 6824281 B2

TITLE: Vehicle accessory module

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schofield; Kenneth	Holland	MI		
DeWard; Joshua L.	Holland	MI		
Whitehead; Peter J.	Holland	MI		
Lynam; Niall R.	Holland	MI		

US-CL-CURRENT: 359/876; 359/838, 359/871

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

9. Document ID: US 6700086 B2

L15: Entry 9 of 21

File: USPT

Mar 2, 2004

US-PAT-NO: 6700086

DOCUMENT-IDENTIFIER: US 6700086 B2

TITLE: Flexible switch and method for producing the same

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Serizawa; Yasuyoshi	Susono			JP
Kubota; Minoru	Susono			JP

Nishitani; Keizo	Susono	JP
Kawaguchi; Kenichiro	Susono	JP

US-CL-CURRENT: 200/512; 200/516

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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10. Document ID: US 6522755 B1

L15: Entry 10 of 21

File: USPT

Feb 18, 2003

US-PAT-NO: 6522755

DOCUMENT-IDENTIFIER: US 6522755 B1

TITLE: Vehicular loudspeaker system

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Warnaka; Glenn E.	State College	PA		
Warnaka; Mark E.	Howard	PA		
Parrella; Michael J.	Weston	CT		

US-CL-CURRENT: 381/86; 381/152, 381/190

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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11. Document ID: US 6087593 A

L15: Entry 11 of 21

File: USPT

Jul 11, 2000

US-PAT-NO: 6087593

DOCUMENT-IDENTIFIER: US 6087593 A

** See image for Certificate of Correction **TITLE: Wire harness protector with anti-rotation and sliding features

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Skipworth; Richard Humes	Plymouth	MI		
Ernst, Jr.; Raymond Paul	Canton	MI		
Willis; Steven Loyd	Belleville	MI		

US-CL-CURRENT: 174/135; 174/136, 174/72A, 174/72C, 174/72R, 439/447

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D.
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12. Document ID: US 5721646 A

L15: Entry 12 of 21

File: USPT

Feb 24, 1998

US-PAT-NO: 5721646

DOCUMENT-IDENTIFIER: US 5721646 A

**** See image for Certificate of Correction ****

TITLE: Exterior rearview mirror for vehicles

DATE-ISSUED: February 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Catlin; Michael R.	Holland	MI		
Gahan; Edward A.	Fennville	MI		

US-CL-CURRENT: 359/865; 248/476, 359/872, 359/877[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

 13. Document ID: US 5709560 A

L15: Entry 13 of 21

File: USPT

Jan 20, 1998

US-PAT-NO: 5709560

DOCUMENT-IDENTIFIER: US 5709560 A

TITLE: Connector having a pivotable connection-assistance member

DATE-ISSUED: January 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hio; Masahide	Yokkaichi			JP

US-CL-CURRENT: 439/157; 439/680[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

 14. Document ID: US 5605110 A

L15: Entry 14 of 21

File: USPT

Feb 25, 1997

US-PAT-NO: 5605110

DOCUMENT-IDENTIFIER: US 5605110 A

TITLE: Multi-use watercraft

DATE-ISSUED: February 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Talbot; Dennis W.	Salt Lake City	UT		

US-CL-CURRENT: 114/248; 114/102.1, 114/39.22, 114/55.5, 114/77R, 440/40, 440/41[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#) 15. Document ID: US 5573716 A

L15: Entry 15 of 21

File: USPT

Nov 12, 1996

US-PAT-NO: 5573716

DOCUMENT-IDENTIFIER: US 5573716 A

TITLE: Continuous forming of complex molded shapes

DATE-ISSUED: November 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobson; Theodore L.	Pacifica	CA		

US-CL-CURRENT: 264/40.7; 264/167, 264/175, 264/177.17, 264/210.1, 264/214, 264/339,
425/140, 425/325, 425/334, 425/378.1, 425/384, 425/391[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#) 16. Document ID: US 4716623 A

L15: Entry 16 of 21

File: USPT

Jan 5, 1988

US-PAT-NO: 4716623

DOCUMENT-IDENTIFIER: US 4716623 A

TITLE: Side door hinge mechanism in motor vehicle

DATE-ISSUED: January 5, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kinaga; Eiichi	Toyota			JP
Shiraishi; Daiichi	Seto			JP

US-CL-CURRENT: 16/371; 16/223, 16/308, 16/370, 296/146.11[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#) 17. Document ID: US 4713862 A

L15: Entry 17 of 21

File: USPT

Dec 22, 1987

US-PAT-NO: 4713862

DOCUMENT-IDENTIFIER: US 4713862 A

TITLE: Side door hinge mechanism in motor vehicle

DATE-ISSUED: December 22, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kinaga; Eiichi	Toyota			JP
Shiraishi; Daiichi	Seto			JP

US-CL-CURRENT: 16/223; 16/370, 296/146.11

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

18. Document ID: US 4700984 A

L15: Entry 18 of 21

File: USPT

Oct 20, 1987

US-PAT-NO: 4700984

DOCUMENT-IDENTIFIER: US 4700984 A

TITLE: Construction of body of motor vehicle

DATE-ISSUED: October 20, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kinaga; Eiichi	Toyota			JP
Shiraishi; Daiichi	Seto			JP

US-CL-CURRENT: 296/146.11; 16/288, 16/308, 16/370

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

19. Document ID: US 4700983 A

L15: Entry 19 of 21

File: USPT

Oct 20, 1987

US-PAT-NO: 4700983

DOCUMENT-IDENTIFIER: US 4700983 A

TITLE: Construction of body of motor vehicle

DATE-ISSUED: October 20, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kinaga; Eiichi	Toyota			JP
Shiraishi; Daiichi	Seto			JP

US-CL-CURRENT: 296/146.11; 16/288, 16/308, 16/370

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

20. Document ID: US 4665587 A

L15: Entry 20 of 21

File: USPT

May 19, 1987

US-PAT-NO: 4665587

DOCUMENT-IDENTIFIER: US 4665587 A

TITLE: Side door hinge mechanism in motor vehicle

DATE-ISSUED: May 19, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kinaga; Eiichi	Toyota			JP
Shiraishi; Daiichi	Seto			JP

US-CL-CURRENT: 16/370; 16/319, 16/371

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINDC](#) | [Drawn D](#)

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SHAPES	404231
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RIGIDITIES	1655
RIGIDITYS	0
CURV\$	0
CURV	208
CURVA	87
CURVAATURE	1
CURVABILITY	21
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21. Document ID: US 4665586 A

Using default format because multiple data bases are involved.

L15: Entry 21 of 21

File: USPT

May 19, 1987

US-PAT-NO: 4665586

DOCUMENT-IDENTIFIER: US 4665586 A

TITLE: Side door hinge mechanism in motor vehicle

DATE-ISSUED: May 19, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kinaga; Eiichi	Toyota			JP
Shiraishi; Daiichi	Seto			JP

US-CL-CURRENT: 16/319; 16/370, 16/371, 248/74.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn D.
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Term	Documents
SHAPE	1403938
SHAPES	404231
RIGIDITY	166077
RIGIDITIES	1655
RIGIDITYS	0
CURV\$	0
CURV	208
CURVA	87
CURVAATURE	1
CURVABILITY	21
CURVABLE	297
(L14 AND CURV\$ AND SHAPE AND RIGIDITY).PGPB,USPT.	21

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